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MONTANA Industrial Horizons
STATE PLANNING BOARD Volume 11—No. 2, 1966

Crisafulli Brothers Manufacturing Mobile Pump in Glendive

Angelo Crisfulli demonstrates easy operation of the Crisafulli pump by attaching it to tractor power take-off and backing it into a swimming pool. The pump is at lower left of the picture mostly submerged, producing the gusher of water at center right. The pump is manufactured in Glendive by the Crisafulli Pump Company.

The "world's most simple high capacity pump" is manufactured in Glendive, Montana. It is the Crisafulli pump, invented by brothers Joe, Frank and Angelo Crisafulli.

They make the claim that it is the simplest of pumping equipment because the Crisafulli pump requires no check valves, no suction pipe and no priming. Water transfer is accomplished by pushing rather than suction.

Another feature of the pump is its mobility. It is mounted on wheels and can be backed into any stream, reservoir or other body of water in a matter of minutes.

The pump was developed from an idea conceived by Angelo when they were experiencing almost daily breakdowns with the belt-driven, centrifugal pumps they were using to irrigate their own cropland located along the banks of the Yellowstone River.

The pump consists merely of a two-sided impeller enclosed within a housing fabricated from quarter-inch steel plate. The housing has two intake ports, one on each side of the impeller, and a discharge port to which a length of reinforced rubber transmission tubing is attached. A drive shaft equipped with universal joint extends from a power tafe-off connector, through a self-aligning bearing—the latter mounted over the apex of an A-frame — through tripod frames mounted over the impeller ports on each side of the housing. Within each of these tripods is a bearing sleeve which holds a water-lubricated brass and rubber bearing. Outwardly, except for the housing, the whole is about as skeletal as a small boat trailer, which it closely resembles

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LBJ, Pearson Invited To Libby Dam Blast

Ground breaking ceremonies to signal the start of construction of Libby Dam on the Kootenai River are to be held August 13. Operation BOLD (Blast Off Libby Dam) will take place on two large islands of about 30 acres in the Kootenai on the axis of the dam about 20 miles upstream from Libby.

President Lyndon B. Johnson and Prime Minister Lester Pearson of Canada head the list of over a thousand who have been sent special invitations to attend. The two Chiefs of State met previously in Great Falls in September 1964 as part of commemorative ceremonies that were held there and in Blaine, Washington, marking final ratification of the Columbia River Treaty which cleared the way for construction of Libby Dam.

Studies and negotiations with Canada on a vast Columbia River development project have been going on since 1944 under five presidents from Franklin D. Roosevelt to President Johnson. Libby Dam was authorized by Congress in 1950. The treaty with Canada also provides for construction of three dams on the Kootenay in British Columbia.

Libby Dam, with its 90-mile long reservoir (extending 42 miles into Canada), is a multi-purpose project for flood control, power and recreation. Construction is expected to be completed in 1972.

4-State Phosphate Meet October 7-8 in Butte

The future of the phosphate industry in Montana, Idaho, Utah and Wyoming will be reviewed at an industrial seminar to be held in Butte on October 7 and 8.

The meeting is being sponsored by the Montana Bureau of Mines and Geology and the State Planning Board.

Taking part in the seminar designed to stimulate interstate cooperation on western phosphate production and processing will be the three research units of the Montana University System; professors from the educational institutions of Idaho, Wyoming and Utah; the U. S. Bureau of Mines and U. S. Geological Survey;

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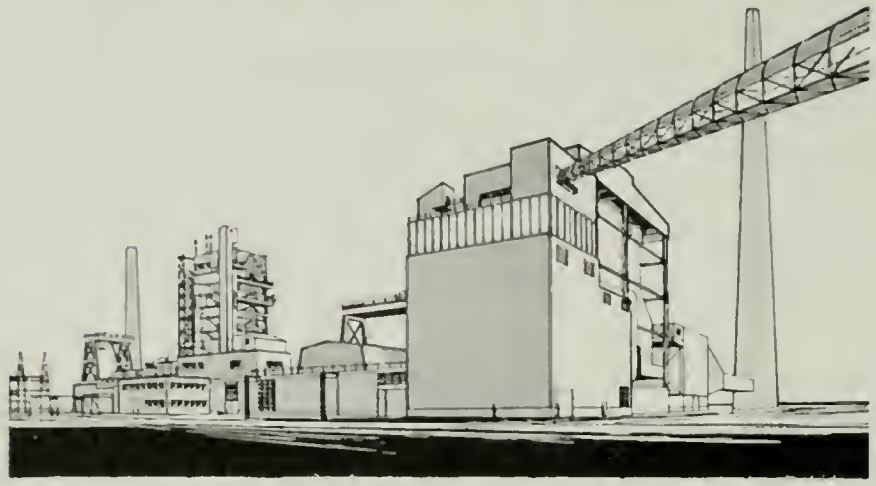
New Billings Steam Plant To Use Montana Coal



Coal from Montana's rich beds will be used to fuel the Montana Power's No. 2 steam-electric plant in Billings when it is completed in 1968. Two and one-half trainloads of coal will be shipped over the Northern Pacific railroad weekly from Colstrip to Billings to supply the 180,000-kilowatt plant. Utility will employ a maximum of 50 men on construction of the plant this summer. At ground-breaking ceremonies May 21, Gov. Babcock called attention to significance of the plant, which he predicted would mean a rebirth of the state's coal industry. Plant will feature built-in devices to enhance air conservation.

Work is in full swing on Montana's largest coal-fired electric generating plant, a 180,000 kilowatt installation The Montana Power Company will have on the line in 1968.

This year footings will be placed and foundation work completed in readiness for the major construction work planned for 1967 and 1968. A maximum of 50 men will be employed on the plant construction this summer before work is buttoned up in September.

Montana Power President J. E. Corette estimates the plant will cost approximately $18,000,000. The generating station will be equal in capability to that of the company's Kerr Dam at Polson and will share honors with the hydro facility as the largest units on the firm's 96,000-square-mile system.

Built-in devices will enhance air conservation. An electrostatic dust collector of latest design will almost eliminate the amount of fly ash emitted from the 350-foot-high stack, whose height further reduces the dust concentration at ground level, according to the company.

Water from the Yellowstone River will be used in the boilers. The plant is in southeast Billings adjoining the location of the firm's only other steam-electric plant, the 66,000-kilowatt Frank Bird plant, which is fired by natural gas or oil.

Coal from Montana's rich deposits of sub-bituminous fuel will fire the boilers in the new plant. In 1959 Montana Power acquired from the Northern Pacific Railway Co. the coal deposits at Colstrip that fired the road's locomotives until they were dieselized a decade ago.

Two and one-half trainloads of coal will be brought into Billings each week to fuel the No. 2 steam-electric plant in the first years of operation.

The plant is being built to supply the growing requirements of Montana Power customers. Electric load in Billings has gone up six times since 1945.

Reely Industrial Park Opens in Missoula

A 100-acre industrial park has recently been developed in Missoula and is open for occupancy. It is located about five miles west of Missoula at the junction of Interstate 90 and U. S. 93.

At dedication ceremonies held on June 15, Samuel J. Chapman, director of the State Planning Board said that the industrial park is one of the most effective tools for development that a community can have. "Just as the citizens of a community plan for attractive residential areas, so does industry look for planned sites compatible with their needs," he said.

The Missoula Industrial Park was

(Continued on page 3)

8-County District Receives EDA Grant

The first economic development district to be formed in Montana under provisions of the Public Works and Economic Development Act of 1965 has received notice from the Economic Development Administration that their application for a planning grant has been approved. The district has incorporated under the name of the Inter-County Development Corporation of Southwestern Montana, and is made up of the counties of Silver Bow, Deer Lodge, Ravalli, Granite, Powell, Madison, Jefferson and Beaverhead.

The corporation will receive $41,008 from EDA, and will contribute $14,369, for a total project budget of $55,377.

The development program for southwestern Montana is designed to provide economic base studies for each county and the district as a whole, and feasibility studies of projects that appear to have a potential for development in the area.

Governor Babcock designated the State Planning Board as the agency to administer the EDA program in Montana. Early in January Sam Chapman, director of the planning agency, met with representatives of the 8 counties to propose the formation of the district. A program was worked out and approved, and a corporation set up to direct the project.

The officers of the corporation are: Lowry Kunkel, Anaconda, president; Dean Neitz, Philipsburg, vice president; Allan Chaffee, Butte, secretary-treasurer; Howard Shinrock, Anaconda, executive director. The board of directors includes these officers and Dan Mizner, Powell County; William Staff, Ravalli County; E. Carroll Speck, Jefferson County; Robert Smith, Madison County; DeMar Taylor, Beaverhead County; William Sherwood, Silver Bow County; Dean Wright, Beaverhead County.

Sam Chapman and Dr. Norman Taylor, director of the Bureau of Business and Economic Research at the University of Montana, will serve the board in an advisory and coordination capacity.

The plan presented to the Economic Development Administration calls for each director to assist in organizing a comprehensive cross-section of people in his county to represent that county in deliverations of economic development; county committees are to be divided into subcommittees to provide close attention to their particular area of interest.

Other multiple-county districts are now being planned under this program designed to create employment and stimulate business.

Hike, Boat, Pack Trips Scheduled

The U. S. Forest Service has arranged for organized group hikes, rides, and boat trips during June, July, and August in wilderness areas and roadless back country of the Northern Region National Forests. For those who would want to come to Montana this summer for business reasons and combine their trip with a few days spent in viewing the scenery, these outings would take them into some of the most rugged and beautiful mountain country in the West. The trips scheduled in Montana are listed below (sponsoring organization in parentheses):

July 18—Selway-Bitterroot Wilderness, 11-day ride, Missoula (WS).

July 22—Mission Mountains, 9-day hike, Missoula (WS).

July 23—Anaconda-Pintlar Wilderness. 2-day walk, west of Anaeonda (MWA).

July 23—Bob Marshall Wilderness, 12-day ride, Missoula (WS).

July 24—Hilgard Mountains, 1-day walk, south of Ennis (MWA).

July 25—Jewel Basin Seenie Area, 9-day hike, Kalispell (WS).

July 30—Selway-Bitterroot Wilderness, 4-day walk, Stevensville (MWA).

Aug. 1—Selway-Bitterroot Wilderness, 12-day ride, Missoula (AFA).

Aug. 3—Mission Mountains, 9-day hike, Missoula (WS).

Aug. 5—Jewel Basin Scenic Area, 9-day hike, Kalispell (WS).

Aug. 5—Bob Marshall Wilderness, 12-day ride, Missoula (WS).

Aug. 6—Spanish Peaks, 2-day walk, south of Bozeman (MWA).

Aug. 6—Mission Mountains, 2-day walk, north of Seeley Lake (MWA).

Aug. 6—Pioneer Mountains, 2-day walk, north of Dillon (MWA).

Aug. 6—Beartooth Wilderness, 3-day walk, east of Cooke City (MWA).

Aug. 15—Selway-Bitterroot Wilderness, 9-day hike, Missoula (WS).

Aug. 15—Anaeonda-Pintlar Wilderness, 12-day ride, Missoula (AFA).

Aug. 21—Mission Mountains, 1-day walk, north of Seeley Lake (MWA).

Aug. 27—Selway-Bitterroot Wilderness, 9-day hike, Missoula (WS).

Anyone interested in these trips should contact the sponsoring organization as follows:

MWA: Montana Wilderness Association, Box 548, Bozeman, Montana 59715.

AFA: American Forestry Association, 919 Seventeenth Street NW, Washington, D. C. 20006.

WS: The Wilderness Society, 729 Fifteenth Street NW, Washington, D. C. 20005.

SC: The Sierra Club, 1050 Mills Tower, San Franeiseo, California 94104.

REELY INDUSTRIAL PARK

(Continued from page 2)

developed by Reely Brothers Industrial and Commercial Properties. The Reelys, John and William, said that leveling the area was the largest earth moving project by a private eoneern in Montana and involved over 190,000 yards of earth work. Streets have been laid out, and plans call for all utilities to be installed underground. The park is within one mile of the minieipal airport and on a main line of the Northern Pacific Railroad. Seetions are to be set aside for heavy industry, light industry and service. The latter will include motel-hotel, offiees, restaurant, drug store, serviee station and administration.

A eement block manufaeturing plant is already under construction and negotiations are underway for several light manufacturing plants to relocate there.

This is the second industrial park to be developed by the Reely brothers, in Missoula.

Paris Digs Wild West, Wall Street Journal Reports

The **Wall Street Jonrnal** reports that Paris has gone wild about the Wild West, and that the Western motif is everywhere there. A Paris Western Club meets several times a month for lasso practice, square dancing, riding and praeticing of Western music. Cowboy boots and Western hats are popular, and there's even a famous strip joint called the Crazy Horse Saloon.

"Frenehmen have been interested in the West for years, but now they have the time and money to live like Westerners on weekends," says Gilbert Gunhold, president of l'Association Western. The assoeiation estimates that France now has 50 dude ranehes, half of them started up in the past year.

And to inaugurate a new program of providing meaningful incentives to sales for speeial retailing promotions overseas, the U. S. Department of Commerce selected a "Treasures of the West" exhibit to aecompany a half million dollars worth of U. S. eonsumer products to France. The exhibit was part of an extensive collection restored and displayed by Don and Stella Foote, of Billings, Montana. Commeree officials saw the exhibit at the Montana Pavilion of the New York World's Fair and kept it in mind as a natural for their new export expansion program. The exhibit was previewed in Washington before shipment in Mareh to one of Franee's largest department stores, the Galeries Lafayette in Paris. A speeial guest at the preview was France's Ambassador to the U. S., Charles Lueet. The Ambassador said that the Western objeets eontained in the exhibit were familiar to the French who "from their youngest age have heard and been fascinated by stories of the great American Plains. The Western theme assures that this exhibit will be a success." The display ineluded a Fort Custer stageeoach and 947 exhibit pieces.

The **Wall Street Journal** article says that the interest in the West of old is so keen that many people in France are planning pilgrimages to America to see what remains of the gold-rush days. L'Association Western plans its first group trip to Ameriea this summer. Among the stops: Cheyenne, Wyo., and Deadwood, S. D.

Says Mr. Rinqueberek of the Paris Western Club: "My wife and I dream of seeing the U.S.A. some day especially Montana and Wyoming."

Prize Truck Loader Manufactured

H. T. Wicklund is shown above with his "Golden Boy Loader," mounted on a pickup truck. The loader rides forward or back on rollers mounted on the sides of the truck bed, and the hinged boom permits the operator to clear the truck with the load. Wicklund won the sweepstakes prize with his invention at the Montana Inventors Congress and he displays here his blue ribbon award. The loader is manufactured by Hydro-Point Engineering Company in Hamilton.

Wicklund Industries, at 1520 South 6th Street in Missoula, has made arrangements with Hydro-Point Engineering Company of Hamilton, for manufacture of their "Golden Boy Loader."

One-Man Loader

The loader is an invention of H. T. Wicklund, a retired Forest Service engineer. It is designed for mounting on trucks and enables a single operator to mechanically pick up a load of from 800 to 1,200 lbs. and deposit it any place on the truck bed, or to unload it.

Prize Invention

Wicklund won first place with the loader in the automotive division awards for 1965 at the North Dakota Inventors Congress, and this year he carried away the sweepstakes prize at the Montana Inventors Congress.

In his work with the Forest Service, Wicklund was often aware of the need for a more versatile handling unit, one that didn't take up any room in the truck bed and that would permit the operator to lift and position a load without exerting a back-breaking effort to do it.

Load Rides on Rollers

The Golder Boy loader consists of a rack equipped with supporting rollers that ride on tubular tracks mounted on either side of a truck bed so that the operator can effortlessly roll the load to any area of the truck bed. A boom is hinged to the rack for clearing the truck with the load. The hoist cable can be either manually or electrically operated.

Maximum estimated weight of the entire unit for a ton-and-a-half and two-ton trucks is 300 lbs.

Wicklund says that one man working alone can safely load and unload practically any material which can be hauled in the vehicle on which the Golden Boy is mounted, even such articles as heavy machinery parts, 55-gallon drums, supplies for fires and other materials placed on large pallets. He claims that, "Here is a boy that can do a man's work."

Safety Feature

Government agencies have indicated an interest in the loader particularly as a safety device for their employees to prevent hernias and back injuries.

F. A. Buttrey Co. has purchased the suburban department store of **Albertson's, Inc.,** in West Park Plaza in **Billings.** Other Buttrey stores are at Great Falls, Havre, Kalispell, and Missoula.

* * *

United Sierra Division of Cyprus Mines Corp. has begun shipment to Belgium of crude talc from its Johnny Gulch mine near Yellowstone Park. The company said the initial shipment of 7,000 tons in April was the first large shipment of crude talc ever moved from the U. S. to Europe. The company has a talc mill at Three Forks and has installed new storage facilities there to stockpile the crude talc in shipload quantities for export.

Big Horn Calcium Expands Lime Plant

According to Neil P. Stadtmiller, secretary of the Big Horn Calcium Company, a million dollar expansion is planned at the company's Warren, Montana, plant to produce hydrated lime, quicklime and pebble lime. A kiln and hydrator will be installed and are scheduled to be in operation in a year to 18 months. This will be the second expansion at the Warren facility since the company assumed operation there seven years ago. Three years ago, Big Horn Calcium added a $400,000 fine-grind limestone facility.

The company presently produces high-calcium limestone, 2½ to 8 inches in diameter, used in beet juice purification in sugar refineries at Worland and Lovell, Wyoming, and at Billings, Hardin and Sidney, Montana. Quarried limestone which is of too small size for the sugar refineries is processed through the fine-grind limestone plant and sold for use as an asphalt filler in paving and as a livestock feed additive.

The announced plant expansion follows three years of engineering and market study by Mr. W. W. Weaver, president, and other personnel of the Big Horn Calcium Company. The proposed capacity of the new plant will be 200 to 250 tons a day of quicklime and hydrated lime.

Limestone produced by the company comes from a quarry located about six miles from Warren. About 80,000 to 100,000 tons of limestone is supplied to the sugar beet refineries a year. Big Horn Calcium Company's production of fine-ground limestone is expected to be 25,000 to 30,000 tons this year.

The new products, hydrated lime and quicklime, will be marketed in Montana and neighboring states, and utilized in stabilization and as a mineral filler in road construction and in the chemical, paper, and other manufacturing industries. Sales currently extend as far as 600 miles from the Warren plant. The plant now operates at full capacity only during the normal construction season, with five men to a shift. However, with the planned expansion, year-round full production is contemplated.

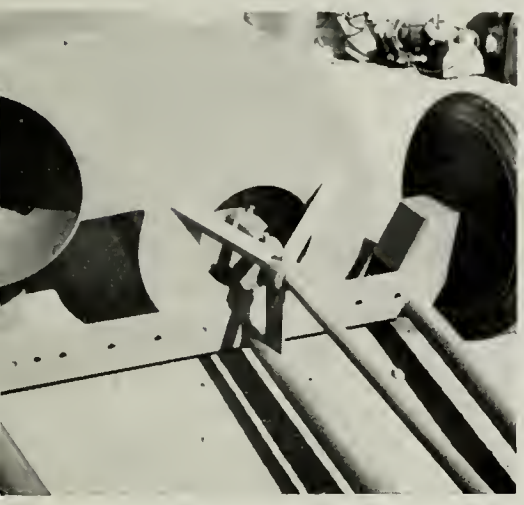
Big Horn Calcium Company at Warren.

CRISAFULLI BROTHERS

(Continued from page 1)

with its two wheels and long tongue.

All the user has to do is attach it to a farm tractor or other vehicle equipped with power take-off and back it into a body of water with sufficient depth to cover the two impeller ports. He straps on a length of rubber pipe and from that point on



Close-up of front intake or suction port of pump shows tripod support and bearing.

he's in business, whether he's irrigating or dewatering.

They make the pump in a variety of sizes from four to 16 inches. And one pump can serve a farm or ranch operator on a number of projects of various sizes—a 12-inch pump capable of producing 3,500 gallons of water a minute can be throttled down to produce as low as 200 gallons a minute. A 4-inch pump capable of 500 gallons can be used to irrigate a small plot where a limited amount of water is available.

The brothers operate the Trading Center in Glendive where they buy and sell a variety of goods, and it is here that they are manufacturing the pump. They have incorporated under the name of the Crisafulli Pump Company.

They can handily demonstrate the pump at a lake near the Trading Center, and on sales jaunts they have even used motel swimming pools to demonstrate to contractors and equipment salesmen. It's not unusual for them to make an on-the-spot sale of the demonstrator. "That's the amazing thing about this pump," Angelo says, "It sells itself."

New Publication . . .

Montana Forest Products Utilization and Marketing Bulletin, published and distributed by Montana State Forester, 2705 Spurgin Road, Missoula 59801. A new publication to communicate information regarding forest utilization and marketing activities. Also lists forest products, for sale and wanted.

INVENTIONS EXHIBITED, AIM OFFICERS NAMED

The second annual Montana Inventors Congress was held in Lewistown, May 20, 21, and 22. Several inventors who entered exhibits last year were among this year's exhibitors, such as Curt Phillips of Rudyard, Glenn (Penny) Johnson from Powell, Wyoming, E. G. Dahl from Billings, and Don Ellis from Cascade. Out-of-state exhibitors besides Johnson included Dr. Clyde B. Hutt from Vancouver, Washington, who brought two inventions: one an electrically operated high-low hospital bed, and the other a folding side rail for hospital beds; C. E. Schwarts from Mott, North Dakota, livened up the Lewistown Civic Center with his display of fishing rod holders which honk when a fish gets hooked on the line. W. E. Schnee of Madison, South Dakota, set up a first-class display of his "Rodenticide," and Arthur E. Harrison of Cheyenne, Wyoming, showed his portable revolving incinerator.

A new exhibitor this year was Inventor's Research and Development Company, Inc., represented by George Schrainer of Payette, Idaho. This company is made up of investors and inventors, and promotes the manufacture and sale of inventions accepted by its board of directors.

Wicklund Takes Prize

Harold T. Wicklund of Missoula won sweepstakes award with his "Golden Boy Loader," a device for easy loading and unloading of trucks. (See story elsewhere in this issue.)

Bryant Lords of Great Falls exhibited a power unit for adjusting truck mirrors; Sam Charchenko of Missoula, a safety screwdriver; Earl N. Hoke of Plevna, a bale wedger; Nick Peters of Wolf Point, a valve spring compressor; H. J. Halmans, of Baker, an irrigation head gate; Harold Bouma of Choteau, a wood post automatic pointer; Johnny P. Schweigert of Livingston, a roll-out saddle carrier for horse trailers; LeRoy C. Reum of Polson, a permanent concrete screed; Clinton F. Salfur of Havre, a fishing float depth control; and Angelo Crisafulli of Glendive, a water pump. Charles R. Lamphier of Sidney, displayed a ranch gate fastener that he could have sold several times over to people who came to view the exhibits.

Lester W. Hall displayed his "Hall's Hoist," a hand truck with a battery or electrically operated lift. He is manufacturing the hoists in conjunction with Hall's Honey House.

B. H. Bobbitt, manager of the Industrial Development Department of the Milwaukee Railroad, from Chicago, was the principal speaker at the Congress banquet. The Lewistown Chamber of Commerce had arranged a tour of the Lewistown area for him and other speakers, and Bobbitt said he was thoroughly impressed with both present conditions and the potential of the area.

He said that the need to keep forging ahead with new ideas has led the Milwaukee to establish a program within recent years called "Creative Crews." Such groups are found in every department of the company for the purpose of searching out new ideas, new concepts and new ways of serving the shipper and the public.

AIM Meets

The annual meeting of the Associated Inventors of Montana (AIM) was held during the congress. Officers elected for this year are: Charles W. Cooley of Lewistown, president; Angelo Crisafulli of Glendive, vice president; and Patrick A. Byrne of Helena, secretary-treasurer. Ken Blevins from Missoula, out-going president, automatically becomes a member of the board of directors. Other directors are: Bernard Benson of Bozeman and Harold T. Wicklund of Missoula, 3-year terms; Edward P. Bucko of Belgrade and Sam Clutton of Great Falls, 2-year terms; and E. G. "Pat" Dahl of Billings and Curt Phillips of Rudyard, 1-year terms.

The officers and board of directors will meet on July 16 in Lewistown to decide on the location of the next congress.

For information regarding membership in AIM, write to State Planning Board, Sam W. Mitchell Building, Helena.

In the News . . .

Snowy Mountain Campers, Lewistown, recently shipped two ready-to-assemble pickup camper kits to customers at opposite ends of the 50 states: to Frostproof, Florida, and Fairbanks, Alaska. The firm is the only one in the United States which manufactures pickup campers in complete, ready-to-assemble kit form.

* * *

Foremost Dairies, Stevensville, has completed installation of packaging equipment for the Mozzarella cheese which they produce for California markets. Formerly, the cheese was sent to a California firm for packaging and shipping. The plant also makes cheddar cheese.

* * *

Mountain States Telephone Co. has started construction on a $517,000 addition and remodeling of the present telephone building at **Butte,** according to D. R. Duncan, district manager for the company. A total of 7,500 sq. ft. of floor space will be added and air-circulating systems and construction of a new facade.

State Industrial Manifest Published

The State Planning Board has a new publication to use in presenting information on Montana to industrialists and factory locating agencies. It is a 300-page book, entitled "The Industrial Manifest of Montana," containing a compilation of information on almost every phase of the Montana economy and resources.

Preparation of the publication has been underway for the past two years, and it contains articles by leading Montana educators and state and federal agencies.

In an introductory message, Governor Babcock says of the Manifest, "Many who have sought to study the various aspects of the Montana scene have found that its scope is complex, diverse and widely dispersed. It is therefore the intention of this publication to bring all industrial factors into focus under one cover."

The Manifest was prepared by the State Planning Board in cooperation with Production Surveys of Montana, a Kalispell publishing firm.

The book contains a total of 28 articles on Montana's government, climate, educational facilities, industries, natural resources, fine arts, recreation, transportation, taxation, research, and economic factors.

There is a special section on the Indian population in Montana, the opportunities which exist for industry on the reservations, and the development of Indian arts and crafts.

The most recent directory of Montana manufacturers has also been incorporated into the book.

There are a number of pages in full color, including the cover which is a copy of a painting by Roy Porter of Libby.

Part of the cost of the publication was contributed by private industry in Montana, and many of the leading ranches, banks, and resorts are pictured throughout the book.

The State Planning Board will handle national distribution of the Manifest, and Production Surveys is arranging for distribution in the state through book stores.

Canadian Firm Buys Helena Brick Plant

The former Western Clay Manufacturing Co. brickyards and facilities in Helena have been purchased by the Medicine Hat Brick and Tile Co. and a decision is expected soon regarding reactivation of the plant in the Capital City.

The Canadian firm first negotiated for just the plant machinery and equipment at a public auction of the property by the Small Business Administration, which they planned to move to Canada. However, after conclusion of the purchase arrangements, a storm prevented Gordon H. Sisson, president of Medicine Hat, and the other company officials from flying immediately back to Canada. The Helena Chamber of Commerce promptly arranged a tour for them and a meeting with Helena business leaders to give them an opportunity to study the area's economic potential. Sisson and his associates liked what they saw and heard and they went back to SBA with an offer to also buy the brick plant, which was accepted.

The State Planning Board has been assisting the Medicine Hat company to compile information for a feasibility study. Sisson estimated that it might take a year to reactivate the plant, should they decide to do so.

Medicine Hat operates a half-dozen brick and tile plants in Canada but this is its first venture across the border.

Bray Foundation Gets Pottery Studio

In other action at the sale of the Western Clay property the Archie Bray Foundation was the successful bidder on the pottery which the foundation has operated since 1951 and which has earned an international reputation as a studio for the serious study of ceramic arts. The $16,500 for purchase of the pottery was raised by donations, from patrons and potters who have been privileged to have had instruction there from such famous teachers as Peter Voulkos, now at the University of California, Toshika Takaezu of Japan, and Marguerite Wilderbain of England.

4-STATE PHOPSHATE MEET

(Continued from page 1)

and industry and transportation representatives.

Dr. S. L. Groff of the bureau is seminar general chairman and Robert E. Matson of the planning agency is secretary.

In announcing the seminar, Dr. Groff said that, "A need for an interstate discussion of the phosphate resource is indicated by developing market competition from other areas, as a natural consequence of their possession of higher grade ore and access to low-cost water transportation. The vast reserves of low- to medium-grade phosphate ore in the Phosphoria Formation of Montana, Idaho, Wyoming, and Utah have a significant position in the future industrial development of the four-state area. A joint review of the over-all industrial aspects of the resource seems pertinent at this time. The seminar is designed to provide a forum for this review, and a basis for consideration of joint action by the four states."

Groff estimates the Western phosphate field at 58 per cent of the nation's phosphate reserves.

The two-day seminar will include about 15 speakers, and conclude with consideration of a proposal for a resolution to form an interstate governors committee for the purpose of research and development of the phosphate resources of the four-state area.

Invitations are being extended to phosphate producers and processors in the Western area, including Canada.

The first self-service liquor store in the state has been opened by the Montana Liquor Control Board in **Great Falls.** The new store is designed to reduce costs and speed shopping for customers in a hurry while permitting leisurely browsing and price comparison.

Industrial Horizons

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Reports on business concerns appearing in this publication do not constitute an endorsement of either the concern named or its products. Statements in this newsletter do not reflect Board policy unless official action is reported.

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